

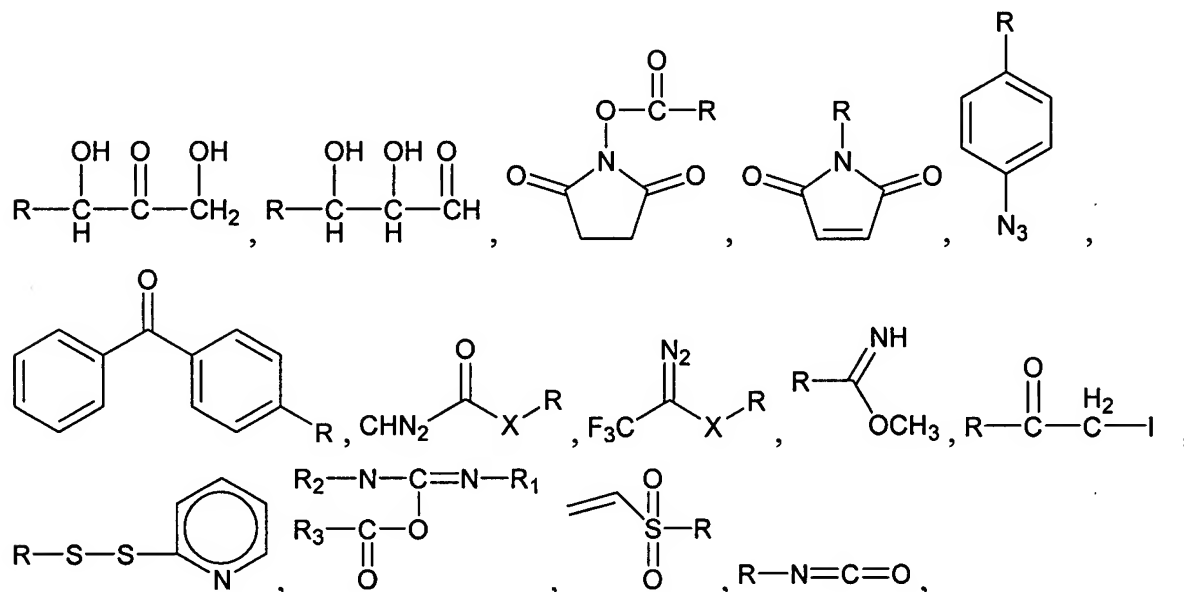
### AMENDMENTS TO THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Previously Presented) A composition of matter comprising:  
a compound having a structure of Formula I



wherein A is an agent;  $L_1$  and  $L_2$  are organic linkers or bonds;  $X_1$  and  $X_2$  are reactive moieties that can covalently bind proteinaceous material and are selected from



N-hydroxy-succinimide, N-alkyl maleimide and derivatives thereof; and

wherein R is an organic or inorganic molecule, and

wherein  $L_2$  and  $X_2$  may be present or absent, however if  $L_2$  is absent, then  $X_2$  is also absent.

2. (Original) The composition of claim 1, wherein the agent is selected from the group consisting of a sunscreen agent, a cosmetic, an enzyme, a coloring agent, a pharmaceutical agent, a member of a ligand/receptor pair, a tissue sealant, a bulking agent, a hair conditioning agent, a

hair fixative, a coloring agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellent and a component of a high affinity noncovalent coupling.

3. (Original) The composition of claim 1, wherein the agent is an enzyme that degrades nerve agents.

4. (Previously Presented) The composition of claim 3, wherein the agent is selected from the group consisting of organophosphorus acid anhydrolase (OPAA) and squid type organophosphorus acid (OPA) anhydrase.

5. (Original) The composition of claim 1, wherein the agent is a nonprotein.

6. (Original) The composition of claim 1, wherein the agent in its native form free of conjugation to the reactive molecule is not able to covalently attach to a body tissue.

7. (Original) The composition of claim 1, wherein the composition does not comprise a microparticle.

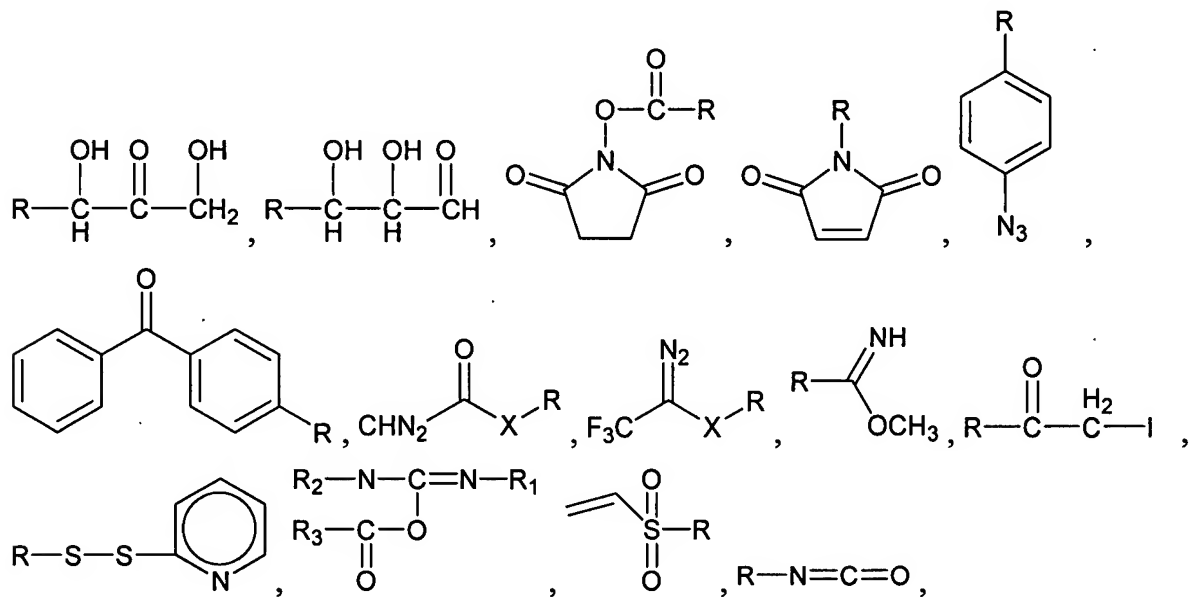
8. (Currently Amended) The composition of claim 1, wherein  $X_1$ ,  $X_2$  or  $X_1$  and  $X_2$  is/are

each the reactive moiety 
$$\begin{array}{c} \text{OH} \quad \text{O} \quad \text{OH} \\ | \quad || \quad | \\ \text{R}-\text{C}-\text{C}-\text{CH}_2 \\ | \\ \text{H} \end{array}$$
 , and wherein the reactive moiety is dihydroxyacetone.

9. (Previously Presented) A method for attaching an agent to a body tissue comprising:  
applying to the body tissue a compound having a structure of Formula I



wherein A is the agent; L<sub>1</sub> and L<sub>2</sub> are organic linkers or bonds; X<sub>1</sub> and X<sub>2</sub> are reactive moieties that can covalently bind proteinaceous material and are selected from



N-hydroxy-succinimide and N-alkyl maleimide; and

wherein R is an organic or inorganic molecule, and

wherein L<sub>2</sub> and X<sub>2</sub> may be present or absent, however if L<sub>2</sub> is absent, then X<sub>2</sub> is also absent in an effective amount, and

allowing said attaching to occur.

10. (Previously Presented) The method of claim 9, wherein the body tissue is selected from the group consisting of the integument, skin, hair, nails, a wound bed, and internal body tissue.

11. (Original) The method of claim 9, wherein the agent is selected from the group consisting of a cosmetic agent, a bulking agent, a hair conditioning agent, a hair fixative, a sunscreen agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellant, a coloring agent, a pharmaceutical agent, a ligand-receptor complex and a receptor of a ligand-receptor complex.

12. (Original) The method of claim 9, wherein the agent is an enzyme that degrades nerve agents.

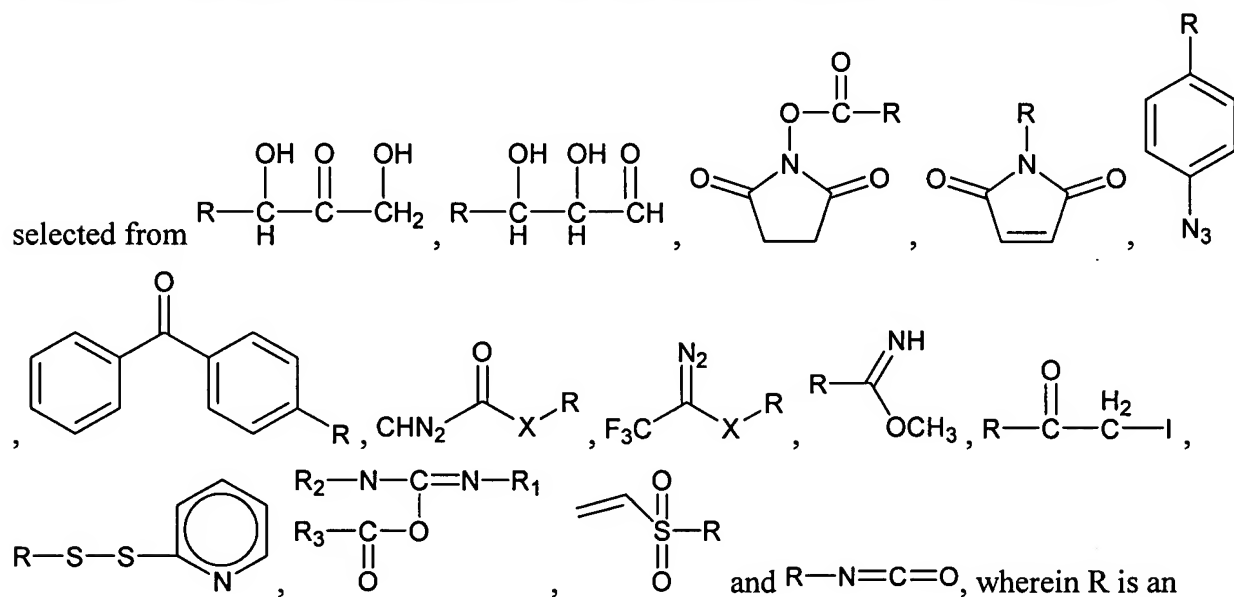
13. (Previously Presented) The method of claim 9, wherein the agent is selected from the group consisting of a organophosphorus acid anhydrolase (OPAA) and squid type organophosphorus acid (OPA) anhydrase.

14-19. (Canceled)

20. (Previously Presented) A pharmaceutical composition comprising:  
a compound of Formula I,



wherein A is an agent; L<sub>1</sub> and L<sub>2</sub> are independently selected organic linkers or bonds; X<sub>1</sub> and X<sub>2</sub> are reactive moieties that can covalently bind proteinaceous material and are independently



organic or inorganic molecule; and

wherein  $L_2$  and  $X_2$  may be present or absent, however if  $L_2$  is absent, then  $X_2$  is also absent, and

a pharmaceutically acceptable carrier.

21. (Canceled)

22. (Original) A kit comprising  
a package housing:  
a container containing the composition of claim 1, and instructions for use.

23-73. (Canceled)

74. (Previously Presented) The method of claim 9, wherein the agent is a nonprotein.

75. (Previously Presented) The method of claim 9, wherein the compound does not comprise a microparticle.

76. (Currently Amended) The method of claim 9, wherein  $X_1$ ,  $X_2$  or  $X_1$  and  $X_2$  is/are each

$$\begin{array}{c} \text{OH} \quad \text{O} \quad \text{OH} \\ | \quad || \quad | \\ \text{R}-\text{C}-\text{C}-\text{CH}_2 \\ | \\ \text{H} \end{array}$$
the reactive moiety, and wherein the reactive moiety is dihydroxyacetone.

77. (Previously Presented) The pharmaceutical preparation of claim 20, wherein the agent is selected from the group consisting of a cosmetic agent, a bulking agent, a hair conditioning agent, a hair fixative, a sunscreen agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellent, a coloring agent, a pharmaceutical agent, a ligand-receptor complex and a receptor of a ligand-receptor complex.